

ABSTRACT OF THE DISCLOSURE

To provide a thermosensitive flow rate detecting in which no response lag occurs even if the flow rate change frequency is high, and no error in detection flow rate is produced even if the power source change would occur, a thermosensitive flow rate detecting device is provided which includes: a heat generating resistor provided in fluid to be measured for generating heat by electric power consumed in accordance with a flow rate of the fluid to be measured; a first temperature detecting resistor for detecting a temperature of the fluid to be measured which changes according to the flow rate; and a second temperature detecting resistor for detecting the temperature of said heat generating resistor, further including a bridge circuit provided with the first temperature detecting resistor and the second temperature detecting resistor, the heating current of the heat generating resistor being controlled such that a temperature difference between the first temperature detecting resistor and the second temperature detecting resistor is kept constant, and the flow rate within the fluid to be measured being detected by using the heating current, wherein a voltage in proportion to the heating current of the heat generating resistor is applied to the bridge circuit.